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1 Secure Data Publishing and Certificate Management: Tangler: a censorship-resistant publishing system based on document entanglements
Marc Waldman, David Mazières
November 2001 **Proceedings of the 8th ACM conference on Computer and Communications Security CCS '01**
Publisher: ACM Press

Full text available: 🔖 pdf(149.02 KB)   Additional Information: full citation, abstract, references, citings, index terms

We describe the design of a censorship-resistant system that employs a unique document storage mechanism. Newly published documents are dependent on the blocks of previously published documents. We call this dependency an *entanglement*. Entanglement makes replication of previously published content an intrinsic part of the publication process. Groups of files, called collections, can be published together and named in a host-independent manner. Individual documents within a collection can ...

2 XML document security based on provisional authorization
Michiharu Kudo, Satoshi Hada
November 2000 **Proceedings of the 7th ACM conference on Computer and communications security CCS '00**
Publisher: ACM Press

Full text available: 🔖 pdf(456.68 KB)   Additional Information: full citation, references, citings, index terms

Keywords: XML, access control, provisional authorization, security transcoding

3 Sensor networks: LEAP: efficient security mechanisms for large-scale distributed sensor networks
Sencun Zhu, Sanjeev Setia, Sushil Jajodia
October 2003 **Proceedings of the 10th ACM conference on Computer and communications security CCS '03**
Publisher: ACM Press

Full text available: 🔖 pdf(177.70 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we describe LEAP (Localized Encryption and Authentication Protocol), a key management protocol for sensor networks that is designed to support in-network processing, while at the same time restricting the security impact of a node compromise to the immediate network neighborhood of the compromised node. The design of the protocol is motivated by the observation that different types of messages exchanged between sensor nodes have different security requirements, and that a single k ...

Keywords: in-network processing, key management, security mechanism, sensor networks

4   Strong password-only authenticated key exchange

David P. Jablon

October 1996 **ACM SIGCOMM Computer Communication Review**, Volume 26 Issue 5

Publisher: ACM Press

Full text available: pdf(1.52 MB)   Additional Information: full citation, abstract, citings, index terms

A new simple password exponential key exchange method (SPEKE) is described. It belongs to an exclusive class of methods which provide authentication and key establishment over an insecure channel using only a small password, without risk of offline dictionary attack. SPEKE and the closely-related Diffie-Hellman Encrypted Key Exchange (DH-EKE) are examined in light of both known and new attacks, along with sufficient preventive constraints. Although SPEKE and DH-EKE are similar, the constraints a ...

5   Proxy signatures for delegating signing operation

Masahiro Mambo, Keisuke Usuda, Eiji Okamoto

January 1996 **Proceedings of the 3rd ACM conference on Computer and communications security CCS '96**

Publisher: ACM Press

Full text available: pdf(1.18 MB)   Additional Information: full citation, references, citings, index terms

6   Defensive techniques: SCUBA: Secure Code Update By Attestation in sensor networks

Arvind Seshadri, Mark Luk, Adrian Perrig, Leendert van Doorn, Pradeep Khosla

September 2006 **Proceedings of the 5th ACM workshop on Wireless security WiSe '06**

Publisher: ACM Press

Full text available: pdf(194.86 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents SCUBA (Secure Code Update By Attestation), for detecting and recovering compromised nodes in sensor networks. The SCUBA protocol enables the design of a sensor network that can detect compromised nodes without false negatives, and either repair them through code updates, or revoke the compromised nodes. The SCUBA protocol represents a promising approach for designing secure sensor networks by proposing a first approach for automatic recovery of compromised sensor nodes. The S ...

Keywords: externally-verifiable code execution, secure code update, self-checksumming code, software-based attestation

7   Wireless network security II: Last hop topology sensitive multicasting key managment

Abhrajit Ghosh, Farooq Anjum

October 2005 **Proceedings of the 1st ACM international workshop on Quality of service & security in wireless and mobile networks Q2SWinet '05**

Publisher: ACM Press

Full text available: pdf(297.42 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we study multicast key management. We illustrate the important role that the features of the last hop play in the context of multicast key management. We then propose several schemes to distribute the keys while focusing on the topology of the last hop. We also show the importance of these schemes when considering last hop wireless networks such as 3G networks. Towards this we have also considered the current proposal for multicasting in 3G networks and shown the advantages that wo ...

Keywords: multicast, network, security, topology

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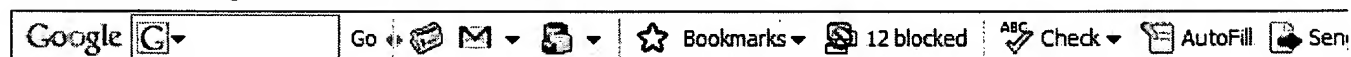
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